Q-189R1

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

E-Mail via Website: www.FordBBAS.com (click "Contact Us")
Toll-free: (877) 840-4338

F-SERIES SUPER DUTY FEAD MOUNTED EQUIPMENT

REVISION	UPDATE	REVISION DATE
Q-189R1	REVISED BULLETIN TITLE, ADDED MODEL YEAR CUTOFF, AND MINOR FORMATING CHANGES	12JAN2023
Q-189	INITIAL RELEASE	05MAR2010

MODEL(S) AFFECTED:
2011 - 2022 Model Year(MY) F-Series Super Duty Pickup (F-250/350) and Chassis Cab (F-350), equipped with a 6.2L V8 Gasoline Engine.

ISSUE / DESCRIPTION:
6.2L Gas engine
This portion of the bulletin is for vehicle modifiers adding auxiliary Front End Accessory Drive (FEAD) equipment to the 6.2L gasoline engine. Typical aftermarket installations include clutch pumps, air & a/c compressors and alternators, whose installations add radial loading to the front hub of the engine crankshaft. Excessive radial loading on the crankshaft can jeopardize the proper lubrication of the engine crankshaft forward bearing, possibly resulting in engine failure.
Ford recommends using the BU7Z-6312-A service damper, which provides three mounting holes for adding an additional pulley.
The additional belt line can be utilized for auxiliary equipment; Ford does not recommend adding auxiliary equipment to the existing belt line. Ford recommends a maximum of 44 ft-lbs of Torque at the damper for the 6.2L engine.

2011 Model Year Change
The crankshaft vibration damper on the 2011 model year 6.2L gasoline engine will not have a provision to mount an additional pulley/belt line. A damper will be available through FCSD that has three drilled/tapped M10 holes to attach a pulley for a second belt line. The part number for this damper is BU7Z-6312-A. Contact a Ford dealer to arrange purchase. Parts will also be available in quantities through Ford Component Sales, contact Donna Hoffman at 1-313-3900694.

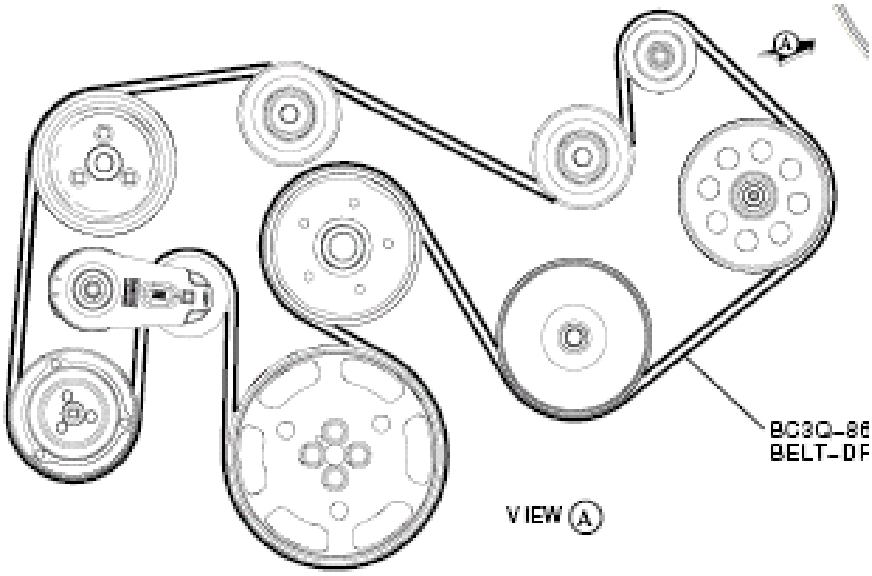
The requirement applies to:
2011 model year F-Series Super Duty (All versions) with a 6.7L V8 diesel engine.

6.7L Diesel engine
This bulletin is for vehicle modifiers adding auxiliary Front End Accessory Drive (FEAD) equipment to the 6.7L diesel. Typical aftermarket installations include clutch pumps, air & a/c compressors and alternators. Ford recommends a maximum of 15 ft-lbs of torque with A/C ON and 35 ft-lbs of torque with A/C OFF for any auxiliary unit added to the existing 6.7L engine beltline. 2nd alternator on a system/
This recommendation will help ensure proper durability of the FEAD. Ford does not recommend using the existing beltline if the vehicle requires the dual alt system. belt
If adding and additional belt lines off the crank damper, there are no unique requirements.

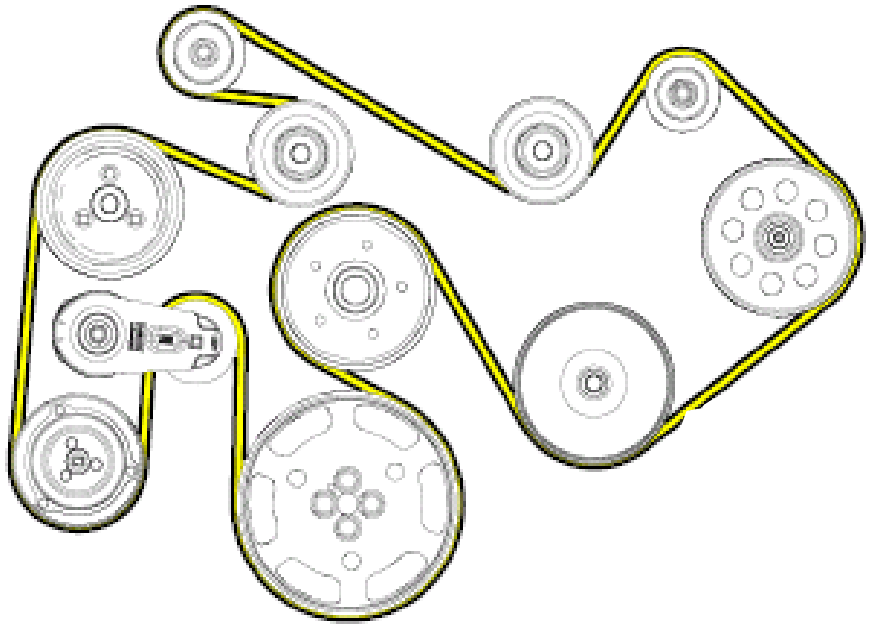
2011 Model Year Change
The major difference between the 6.4L FEAD and the new 6.7L FEAD layout is A/C on the 6.4L has its own sheave. This allows for higher torque capacity of a PTO as the AC loads do not impact the resulting hub loads on the main drive. Higher speeds with the same torque input result in lower hub loads.

Additional Recommendations
Avoid blocking airflow to the radiator through the grille opening. Recommend to vehicle owners that they consider increasing the frequency of regular normal maintenance checks. These and other general guidelines can be found in the “Design Recommendations” and “Power Take Off Installations” sections of the 2011 Ford Truck Body Builders Layout Book along with Q180. If you have any questions you may contact the Ford Truck Body Builders Advisory Service at 877-840-4338, or visit https://www.fleet.ford.com/truckbbas/index.htm

6.7L SINGLE ALTERNATOR SYSTEM

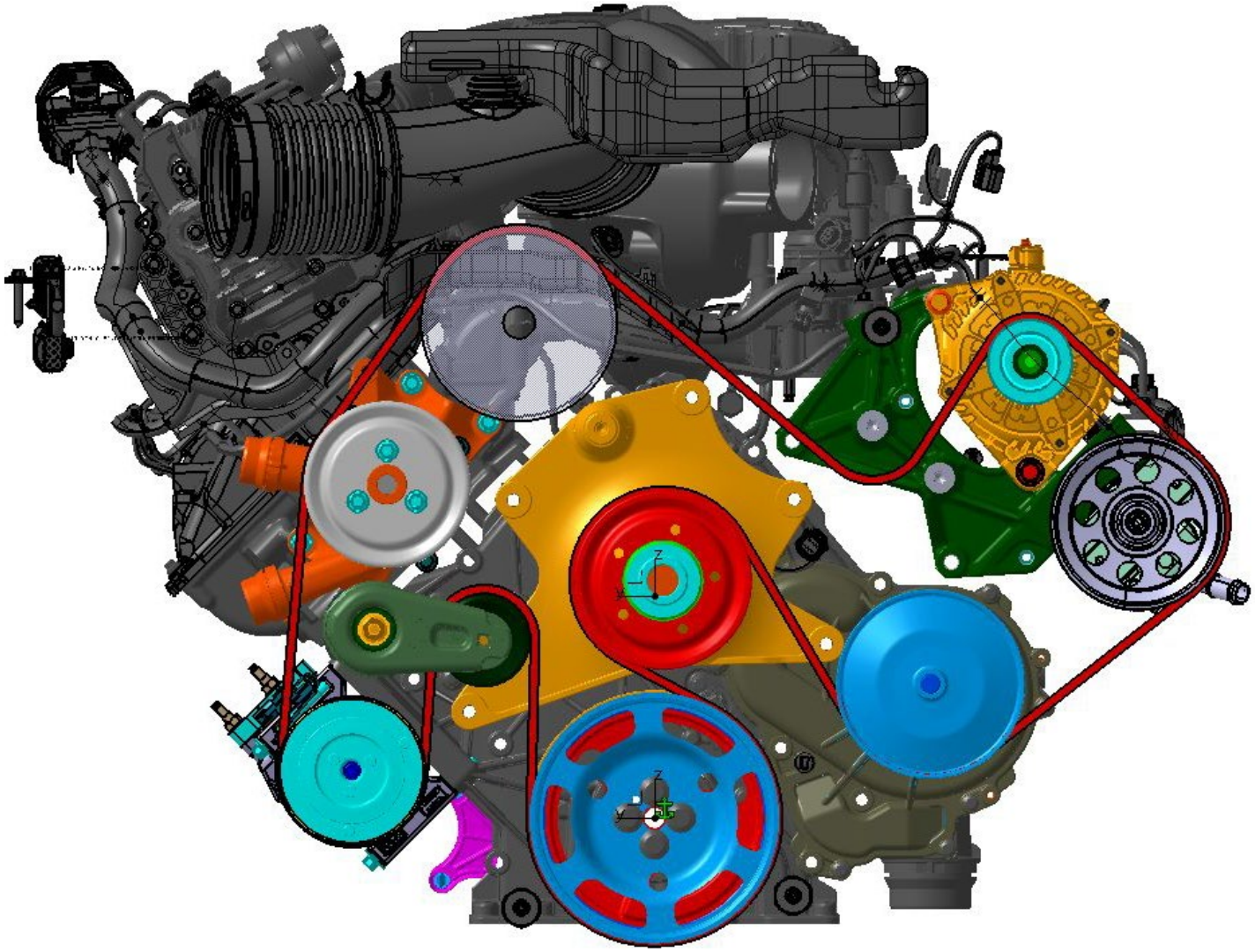


6.7L DUAL ALTERNATOR SYSTEM



Recommendation:
Have the alternator in the single alt mount position and add an auxiliary piece of equipment in the second alt location. Move the single alt idler to the dual alt idler position.

Potential PTO Package with a single Alternator FEAD



Refer to the Body Builder Layout Book for additional guidelines and recommendations. If you have any questions, please contact the Ford Body Builders Advisory Service as shown in the header of this bulletin.